H-430

User Manual

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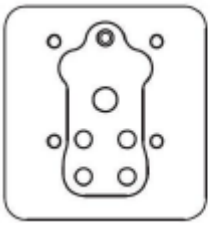
Website: http://www.ojecoco.com

Introduction

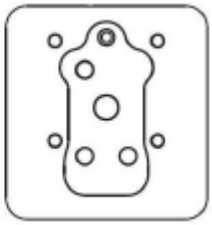
The H-430 is designed and manufactured by Ojecoco Photographic Technology Co., Ltd, a specialist producer of photographic equipment and accessories. This wireless trigger set features separate transmitters and receivers. It is multi-functional, with wireless synchronized triggering, wireless shutter triggering, wired shutter triggering, TTL pass-through, grouping and camera relay shooting. It is compatible with the H-550. The H-430's multi-functions are compatible with the H-550 (the H-430RX can also receive HSS signals from the H-550).

Compatibility

The H-430TX is available with two differently configured underside male hot shoes (with matching topside female hot shoes on both TX and RX):



For Canon



For Nikon

The H-430 can be used* with suitable cameras and flashes from the following manufacturers:

H-430 Variant	Camera Manufacturer	Flash Types
Canon type	Canon Olympus	OEM Flashes Compatible Flashes Studio Flashes
Nikon type	Nikon Pentax Samsung Fujifilm	

* Not all H-430 functions may be available with all camera models. In particular, pay attention to older models of flash and their trigger voltages (maximum safe is 300V attached to the RX), as some may cause harm to the H-430. It is possible to use the H-430 Canon type as a Nikon type and vice versa if needed, but some functionality may be lost (such as TTL pass thru and flash wakeup).

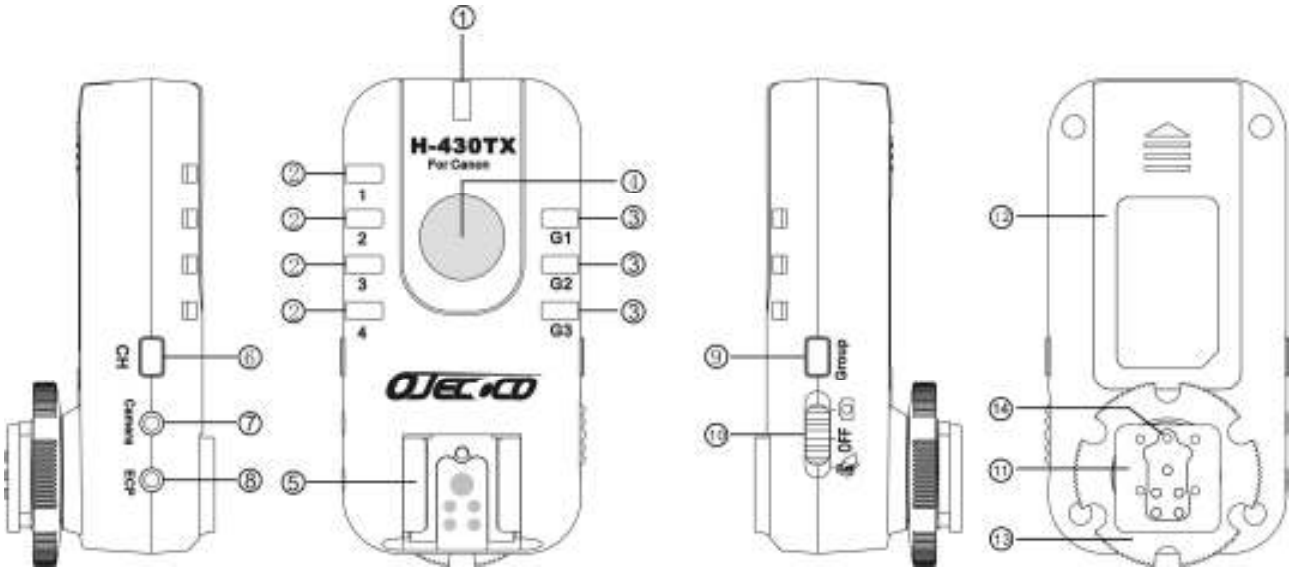
Safety Warnings

1. Before installing or removing the H-430, please make sure the camera or flash are off.
2. The H-430 is not a toy. Please keep out of reach of children and pets.
3. Turn the power off and take out the batteries if not being used for a long time.
4. The H-430 is designed to prevent damage to its internal circuits should you accidentally insert the batteries with reversed polarity. However, please, pay attention to the battery polarity, otherwise the batteries may leak corrosive liquid, overheat or even explode.

5. Follow safe operating procedures when using batteries, otherwise there may be a danger of overheating, explosion, fire, or risk to personal safety.
6. Do not use H-430 when you are near to locations with combustible substances or hazardous chemicals.
7. The H-430 is not water or moisture proof. Please keep it dry and do not expose it to rain, liquids or moisture.
8. When connected to other devices, take care not to wrench the H-430, or the shoe contacts or cables may be damaged and cause poor contact.
9. The H-430 is an electronic accessory. It is possible that environmental factors or abnormal working conditions may cause it not to work. If this persists, please contact the manufacturer.
10. Do not disassemble or perform maintenance on the H-430. Repairs must only be undertaken by qualified personnel.

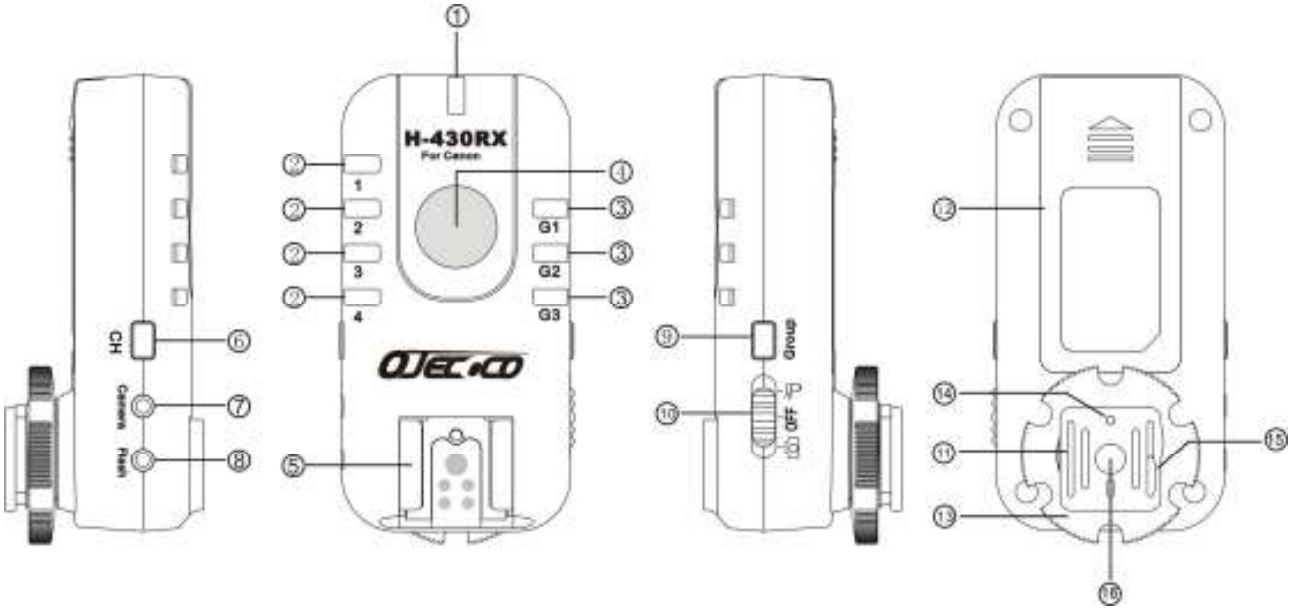
Component Parts (Canon version shown)

H-430TX



1. LED Status indicator light
2. 4 bit channel signal LED
3. 3 bit group signal LED
4. Shutter trigger/test button
5. Hot shoe (flash only)
6. Channel setting button
7. 2.5mm shutter trigger socket
8. 2.5mm ECP socket (for trap shooting)
9. Group setting button
10. Power/hand-hold/camera mode function switch
11. Metal camera hot shoe
12. Battery bay cover
13. Hot shoe locking wheel
14. Hot shoe locking pin

H-430RX



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5. Hot shoe (flash only)
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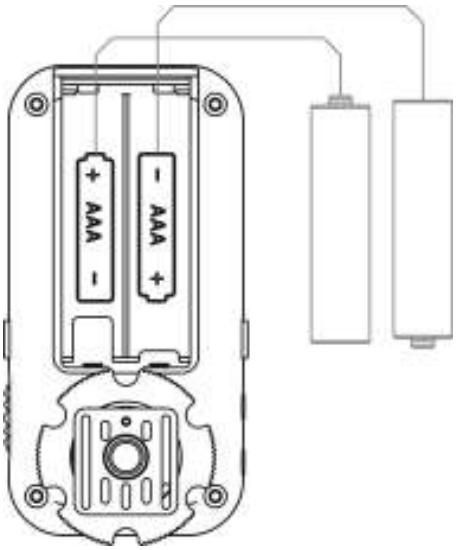
7. 2.5mm shutter trigger socket
8. 2.5mm flash trigger socket
9. Group setting button
10. Power/flash/camera mode function switch
11. Cold shoe mount
12. Battery bay cover
13. Cold shoe locking wheel
14. Cold shoe locking pin
15. Hole for lanyard strap
16. ¼" BSW thread metal fixed insert

Preparation for use

1. Install the batteries as shown in the picture (applies to both H-430TX and H-430RX).
2. Turn on power and select function mode.
3. Set all units to the same channel
4. Set up the groups
5. Connect to devices.

For details of steps 2-4, see the section below: "Setting Channel, Function Mode and Flash Groups".



Specification

Radio frequency: 2.4GHZ
Signal type: Frequency Shift Keying (FSK)
Antenna: Built-in PCB Antenna
Control Distance: 150m (subject to environmental limitations)
Channels: 5
Flash groups: 3 groups; 7 different group combinations
Normal triggering sync-speed: 1/320 second
Battery Type: 2 x AAA (2.4V~3.2V)
Standby time: H-430TX 100 days, H-430RX 200 hours
Camera shutter port, Studio flash (RX)/ECP (TX) ports: Ø2.5mm
Safe Port Voltage: 3.3V to camera (H-430TX), 300V from flash (H-430RX)
Minimum latency: 400µs
Body Dimensions: 84*42*38mm (LWH)
Net Weight (without batteries or cables): H-430TX: 52gm, H-430RX: 46gm
Working Temperature: -15°C~65°C
Storage Temperature: -30°C~85°C

Functionality

The H-430 combines shutter release, trigger and high-speed trigger all in one. Users may choose either one according to their requirements. It utilizes the global free FSK 2.4G wireless radio frequency, with 5 independent broadcast channels, and can be used in a variety of situations where there may be many photographers working in the same place and time (like sports events). The H-430 offers efficient control, speed of operation and setup, range, and reliability.

Main Features:

1. Capable of wireless single shot, continuous shooting, B (Bulb) shooting, ECP trap shooting and wired shutter control.
2. Wireless auto wakeup of flashes (those that support wakeup, for example the Nikon SB-600/700/800/900 series flashes)
3. Wirelessly sync trigger camera flash, studio flashes and off camera flashes, indoors or outdoors.
4. H-430TX supports TTL pass-through (but not e-TTL function).
5. Provides 5 independent channels to be used in a busy environment where many photographers use flash at the same time and place.
6. Use a master camera to control multiple cameras for photographing from different angles (note that remote cameras cannot share flashes with the master camera).
7. Provides 3 individual flash groups giving 7 different group combinations.

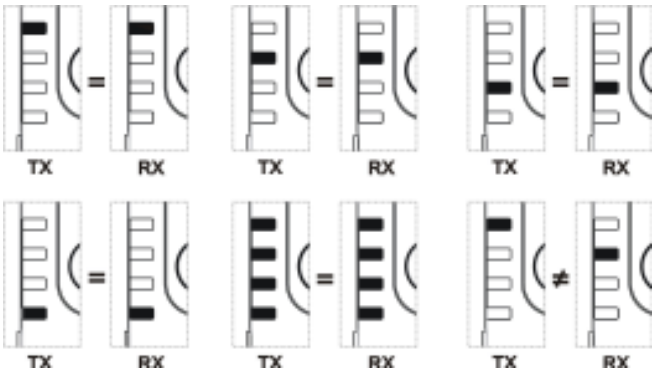
8. In basic triggering mode: sync speed is up to 1/320s for mechanical shutter cameras, and in excess of this for hybrid electronic/mechanical shutter cameras (dependent on camera design).
9. H-430 is available in Transmitter and Receiver form factor and they are designed to be used together; both are compatible with the H-550TRX.
10. Accidental reverse polarity battery installation will not damage the unit.
11. Wheel lock for underside hot and cold shoes, with locking pin.

Setting Channel, Function Mode and Flash Groups

1. Setting Channels

The H-430 can be set to one of 5 possible channels (“1”,“2”,“3”,“4”,“1234”). Ensure that you set all the transceivers to the same channel before use. One H-430TX can work with multiple H-430RXs to simultaneously control multiple flashes and/or multiple remote cameras. The H-430 can also be used by many photographers working together to control different cameras, but each photographer must set their own channel different to the others to avoid signal interference.

Set different channels by pressing the channel setting button (7) on the side of the H-430:

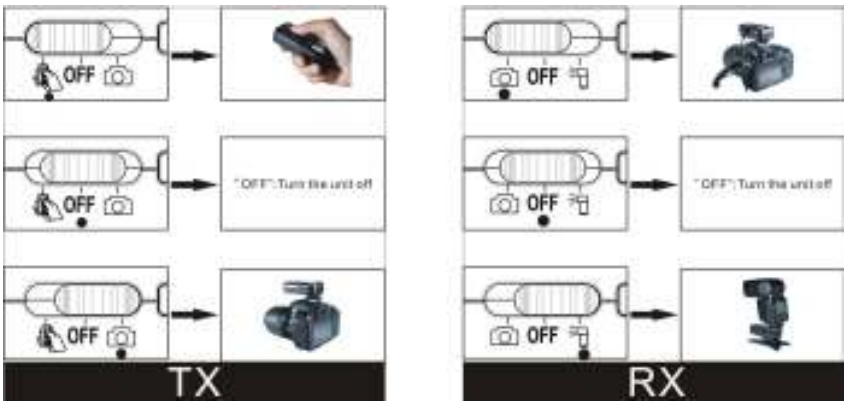


2. Setting Function

Camera-: Use this when the H-430TX is connected to the camera, and when the H-430RX is connected to the camera for ‘wireless shutter release’ function.

FLASH-: Use this when the H-430RX is connected to the flash and when the H-430RX is connected to the camera for ‘Master camera to control multiple cameras’ function.

HOLD-: Turns the H-430 TX into a wireless remote camera trigger.



3. Setting Flash Groups

When the H-430TX is in HOLD mode and the H-430RX is in CAMERA mode, the group function does not work.

With the H-430TX in CAMERA mode, there are seven different combinations of groups that can be set.

Press the group button (9) and the Group LEDs show the current group setting. Pressing the group button again, the group will be changed, cycling in this order:

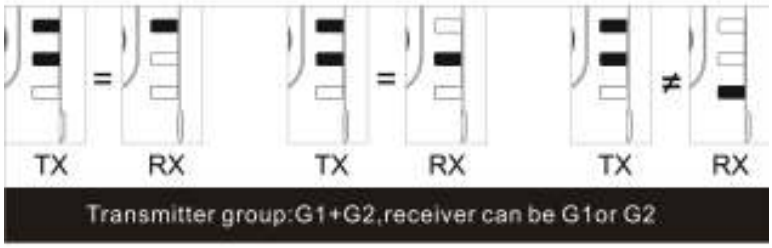
G1→G2→G3→G1+G2→G1+G3→G2+G3→ G1+G2+G3→G1 ...

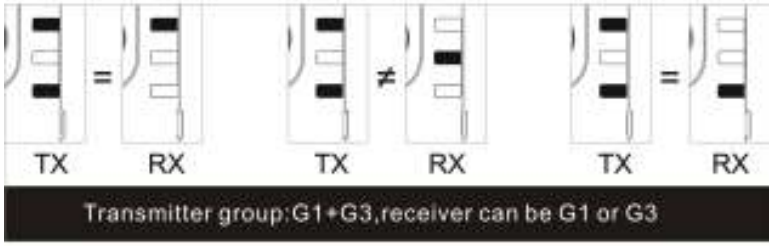
With the H-430RX in FLASH mode, it can only be a member of a single group. Press the group button (9) and it selects and changes the group as the H-430TX does, but cycling in this order:

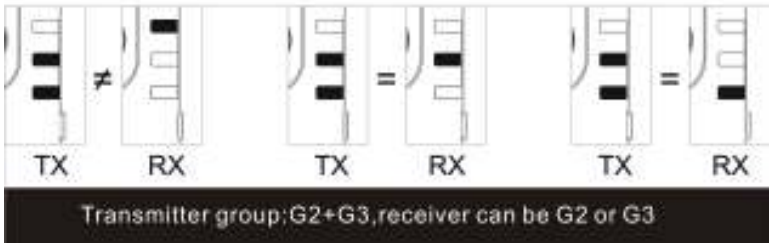
G1→G2→G3→G1 …

The flash groups LEDs will turn off after approximately 4 seconds after the last press of the group select button.

Note: For the flash to fire, the group set on the RX must be one of the groups set on the TX.







Master camera to control multiple cameras

Place one H-430TX onto the master camera's hot shoe, set the function switch to "Camera - ".

With a H-430RX, set the function switch to "FLASH - " and connect the shutter cable with "Camera" interface of H-430RX to the shutter interface of the camera.

As the master camera shoots, so the controlled cameras each shoot. This may not perfectly synchronous, as there may be a slight delay between master and remote camera shutter release.

Master camera control slave camera

Camera shutter triggering

Wireless shutter release

1. Single shooting (Set the camera to single shooting mode)

Get one H-430RX and set the function switch to "Camera - ". Connect the camera shutter cable with "Camera" interface of H-430RX to the shutter interface of the camera.

Get a H-430TX, set the function switch to "Hold - ". A half-press of the H-430TX trigger button will activate the camera auto focus system and the shutter indicator LED of both of the H-430 units will be green. Press the H-430TX trigger button fully and the shutter indicator LED turns to red, which will wirelessly trigger the camera shutter for a single shot.

2. Continuous Shooting (Set the camera to continuous shooting mode)

Almost the same as single shooting mode - but you need to keep pressing on the H-430TX trigger button for continuous shooting.

3. Bulb (set the camera to bulb or long exposure mode)

Again, almost the same as single shooting mode, but you need to keep pressing on the H-430TX shutter trigger button for 3 seconds until the red indicator LED switches off. Then the camera shutter is set to long exposure, triggering button can be released and then to stop long exposure, you just need to re-press the triggering button once.

Wired shutter release

Using a H-430TX, set the function switch to “Hold - ”, connect the shutter cable to “Camera” interface of H-430TX unit to the shutter cable interface of the camera. Press the H-430TX trigger button for single shooting, continuous shooting and bulb (as with wireless shutter release).

Wireless Sync Trigger

1. Wireless trigger

The H-430 can sync trigger off-camera flash, studio flash and camera flash.

2. When working a with H-550, the H-430 can remote control camera shooting and synchronize flash triggering to enable the camera work with several flashes at the same time.

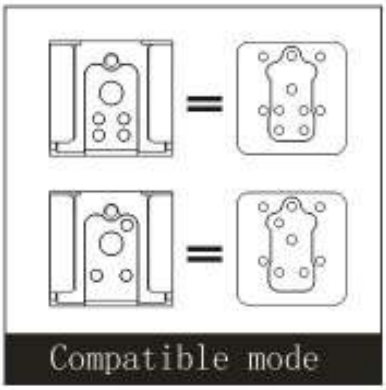
3. Camera TTL Flash and Off-camera Flash Trigger

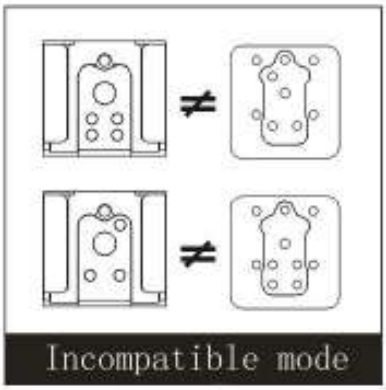
The H-430TX supports on camera flash with TTL function and will not affect communication between camera and camera flash for TTL data. Meanwhile, it will also sync trigger off-camera flash (normal off-camera flash sync speed parameters apply).

Use of Incompatible Mode

When the H-430 unit is not directly compatible with the camera or the flash, you need to simultaneously press the group and triggering buttons once to place the H-430 into non-compatible mode.

After 30 minutes of non-use, or if it has been switched off, H-430 units will automatically revert to the normal compatible mode.





Other Notes

1.1 Wired trigger flash test. Set the function switch of H-430RX to "Flash - ", half press the trigger button, and it will trigger the connected flash.

1.2 Wireless trigger flash test. Set the function switch of H-430TX to "Camera - ", half press the trigger button, and it will trigger any flashes that are connected to H-430RXs that are set to "Flash - ".

2. Wired Shutter Test. Set the function switch of H-430TX to "Hold - " and connect this unit to camera by shutter cable. Half press trigger button and the connected camera focus once. Fully pressing the trigger button will trigger the camera to shoot once.

3. Incompatible mode wireless flash trigger. If the H-430TX's "Camera - " status is in non-compatible mode with the camera, you must also set the H-430RX 's "Flash- " status to non-compatible mode to make it work, regardless of whether the H-430RX is compatible with the flash or not.

4. Non-compatible mode and flash wakeup. If the H-430RX and the attached flash are working in non-compatible mode, the H-430RX cannot wakeup the flash.

5. The H-430RX 's working status indicator lamp. This will flicker approximately every 5 seconds. If the H-430RX is not in use for a long time, please turn it off.

6. Low Power Indication. When the H-430 working status indicator lamp is red and flickers approximately every 2 seconds, it means the battery is running out of power and needs replacing or re-charging in the case of rechargeable batteries.

FAQ

1. General Troubleshooting Checklist

Make sure the battery is installed and receiver power switch turned on.

Set the H-430TX and H-430RX to the same channel.

Make sure the H-430TX and H-430RX are set to the correct function mode.

Make sure the hot shoe mount is correctly connected.

Make sure the hot shoe is compatible with the flash or camera.

2. Camera shoots but doesn't focus

Make sure the camera body and lens focus mode is set to AF, not MF.

3. Misfires or Signal Interference

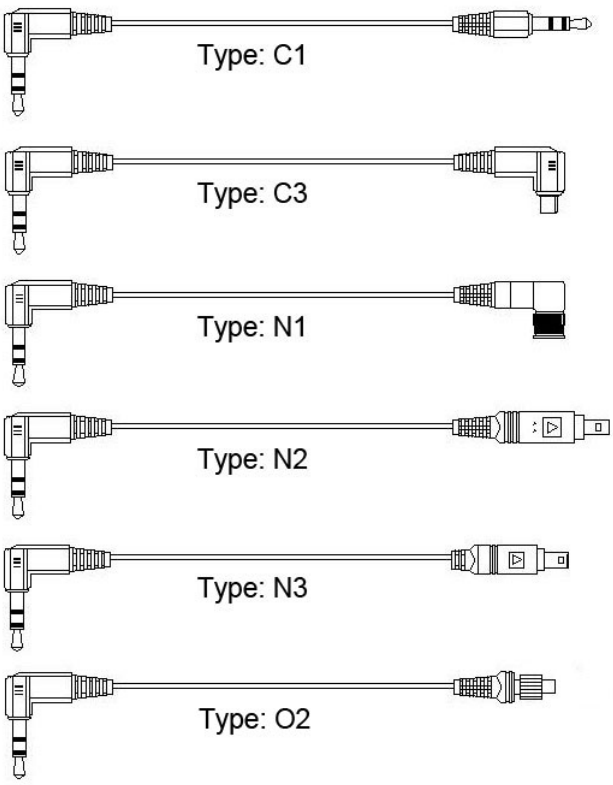
Please change the channel of the transmitter and receiver at the same time.

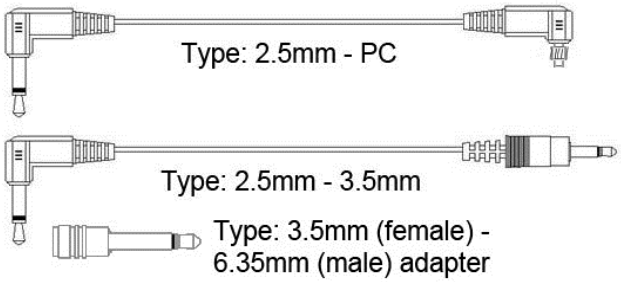
4. Limited Operating distance

Check if the battery is exhausted.

Try to move transmitter's location.

Cable Options (extra cost)





Type 2.5mm to PC (screwlock) can be used for RX to Flash PC sync port.

All cables coiled; nominal length uncoiled is 1m.

Shutter Cable Usage (camera model list may not be extensive):

Cable Type	Usage
C1	Canon 60D, 1100D, 1000D, 600D, 550D, 500D, 450D, 400D, 350D, 300D, G11 and G10 (and probably other Canon cameras). Also for Samsung GX-20, GX-10; Pentax K20D, K200D, K10D, K100D (and probably other Samsung and Pentax cameras that use a 2.5mm jack shutter trigger port connector).
C3	1D, 1Ds, 5D, 7D, 40D, 30D, 20D, 10D (and probably other Canon cameras)
N1	D3 series, D2 series, D1 series, D700 series, D300 series, D200, N90S, F5, F6, F100; Fuji S5 Pro/S3 Pro; Kodak DCS-14n (and probably other Nikon cameras that use the MC-22 round 10 pin connector)
N2	Nikon D70s and D80
N3	D90, D3100, D5000 and D7000 (and future Nikon cameras that use the Nikon MC-DC2 connector)
O2	Olympus E10/E20/E1/E300/E3